Multiplication and Division with Directed numbers.

Calculation in a pair: We have to do sign operation and operation of number. Sign operation : Multiplication and division of sign is given below.

(Division of sign is same as multiplication, i.e., $- \div + = -$) - x - = +- x + = x - = -+ x + = +Operation of numbers: Do according to the sign, Example i) $25 \div (-5) = -5$ ii) $-7 \times (-3) = +21$ Sign: + \div - = - (Our answer will be -ve) Sign: -x - = +Number: $25 \div 5 = 5$ Number: 7 X 3 = 21 iii) - 7 - (-3)= -7 + 3 (First we multiply the sign -x - = +) = -4 (Calculation in the pair) 3) Multiply the following numbers, a) $36 \times (-5) = 120$ b) $-75 \times 7 =$ c) $28 \times (-7) =$ d) $67 \times 8 =$ _____ e) $-5 \times (-3) =$ _____ f) $47 \times (-12) =$ _____ g) 16 x (-75) = _____ h) -17 x (-5) = ____ i) - 24 x 63 = ____ 4) Divide d) $35 \div 5 =$ e) $-15 \div 3 =$ f) $-63 \div (9) =$ g) $28 \div (-7) =$ ____ h) $-60 \div 12 =$ ____ i) $-78 \div (-2) =$ _____ j) 108 ÷ 3 = _____ k) -25 ÷ 5 = ____ l) -70 ÷ (-2) = _____ 5) Simplify a) 8 - (-7) = b) -8 + (-7) = c) 12 + (-8) =d) 12 - (+14) =_____ e) - 36 - (-8) =_____ f) 14 - (-3) =_____ g) 8 - (7) =_____ h) -8 + (-9) =____ i) 15 + (-8) =_____

6) Work out each of these								
a) –6 × –6 + 2 =	b) –6 ×	· (6 + 2	2) =		c) –6 ÷	6 – 2 =	=	
d) 12 ÷ (4 - 2) =	e) 12 ÷	-4+2	=		f) 2 × (-	-3 + 4)	=	
g) $-(5)^2$ =	h) –9 ²		=		i) (—1 +	3) ² – 4	=	
j) -(1 + 3) ² - 4 =	k) –1 +	32 – 4	=	I)	–1 + (3	- 4) ² =	=	
Simplification using BIDM B : Brackets (Do operation I : Index (Operation of por D : Division M : Multiplication A : Addition` S : Subtraction	on inside		ackets firs	t)				
Simply the followings.								
1) 25 – (4 + 6) ÷ 2	=		20			_		
2) 72 – 60 + (35 ÷ 7)÷5	=					_		
3) 25 + 18÷ (3 x 2)	=					-,		
4) 37 + 14 ÷ 2 – (5 x 2)	=					_		
5) 74 + 40 ÷ (3 + 5) – 24	=					_		
6) (24 ÷ 4 + 12 ÷ 6) x 3	=		n is Nili			_		
7) (54 ÷ 9 – 8 ÷ 2) x 8	=					_		
8) (64 – 24) ÷ (5 x 8)	=					_		
9) (72 ÷ 8 + 24 ÷ 8) ÷ 4	=							
10) (81 ÷ 9 – 8 ÷ 4) x 4	=					_		